

Fig 1 - Confocal Microscopy Images of Wetted Particles

Particles Cast in Liq. N₂ - No.1

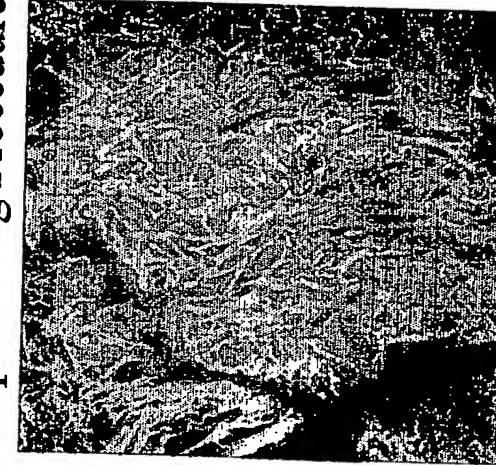
Particles Cast in Pentane @ -15C - No. 4

Particles Cast in Air @ -20C - No. 7

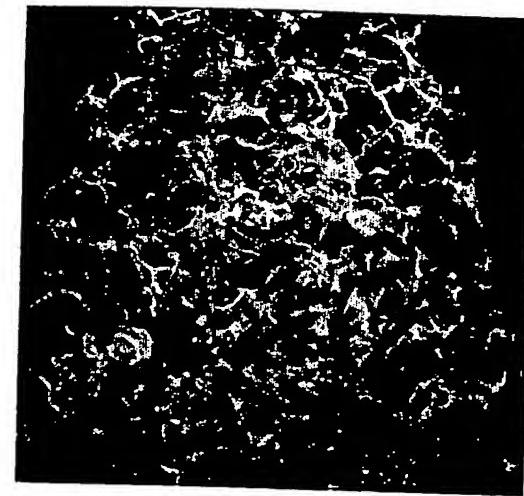
9 Step Wetting Procedure



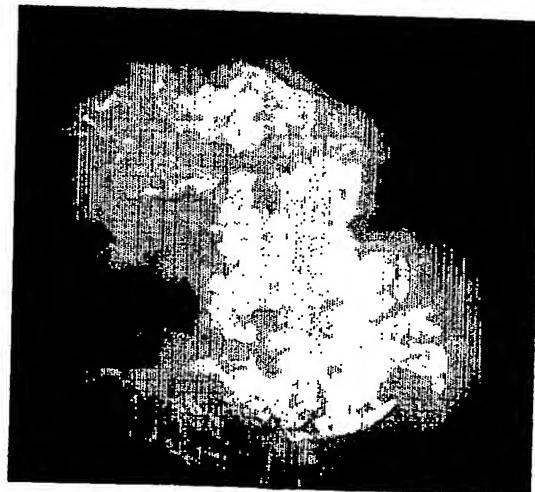
(a)



(b)

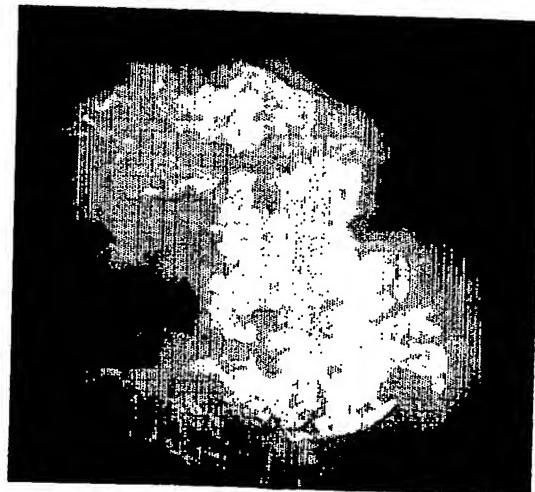


(c)

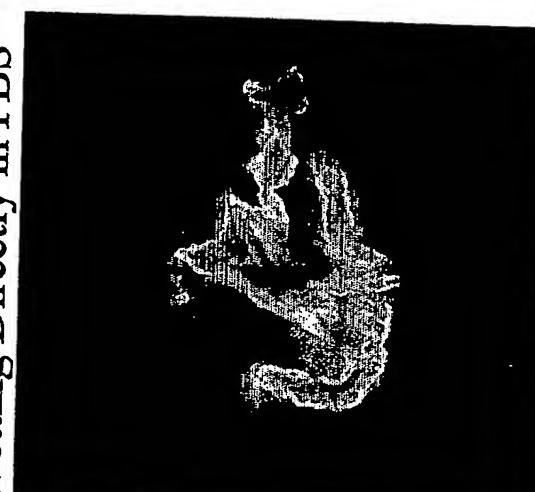


(d)

Wetting Directly in PBS



(e)



(f)

640u 640u 640u 640u

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Figure 2 Dry Particulate Collagen Sponges

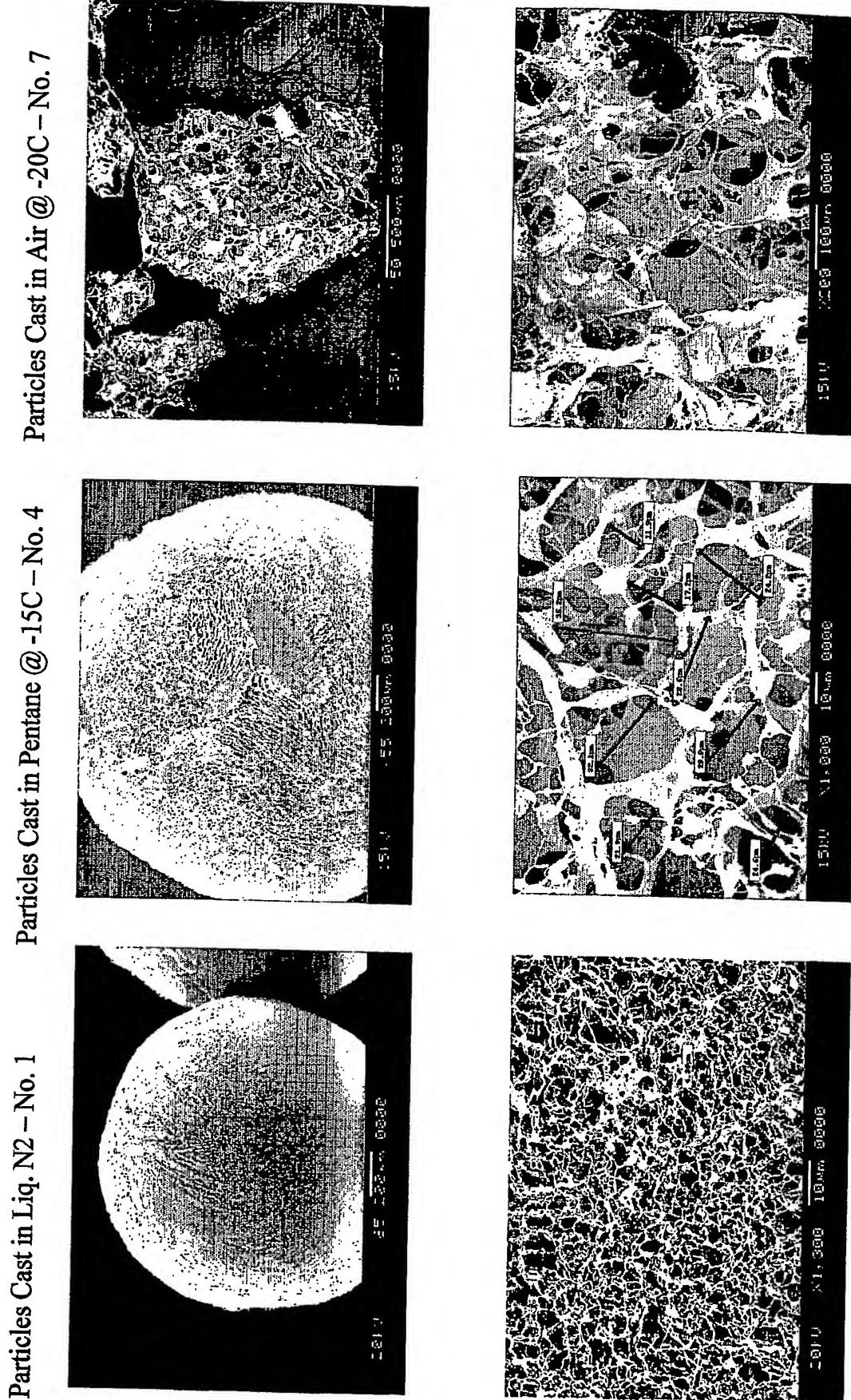


Fig 3

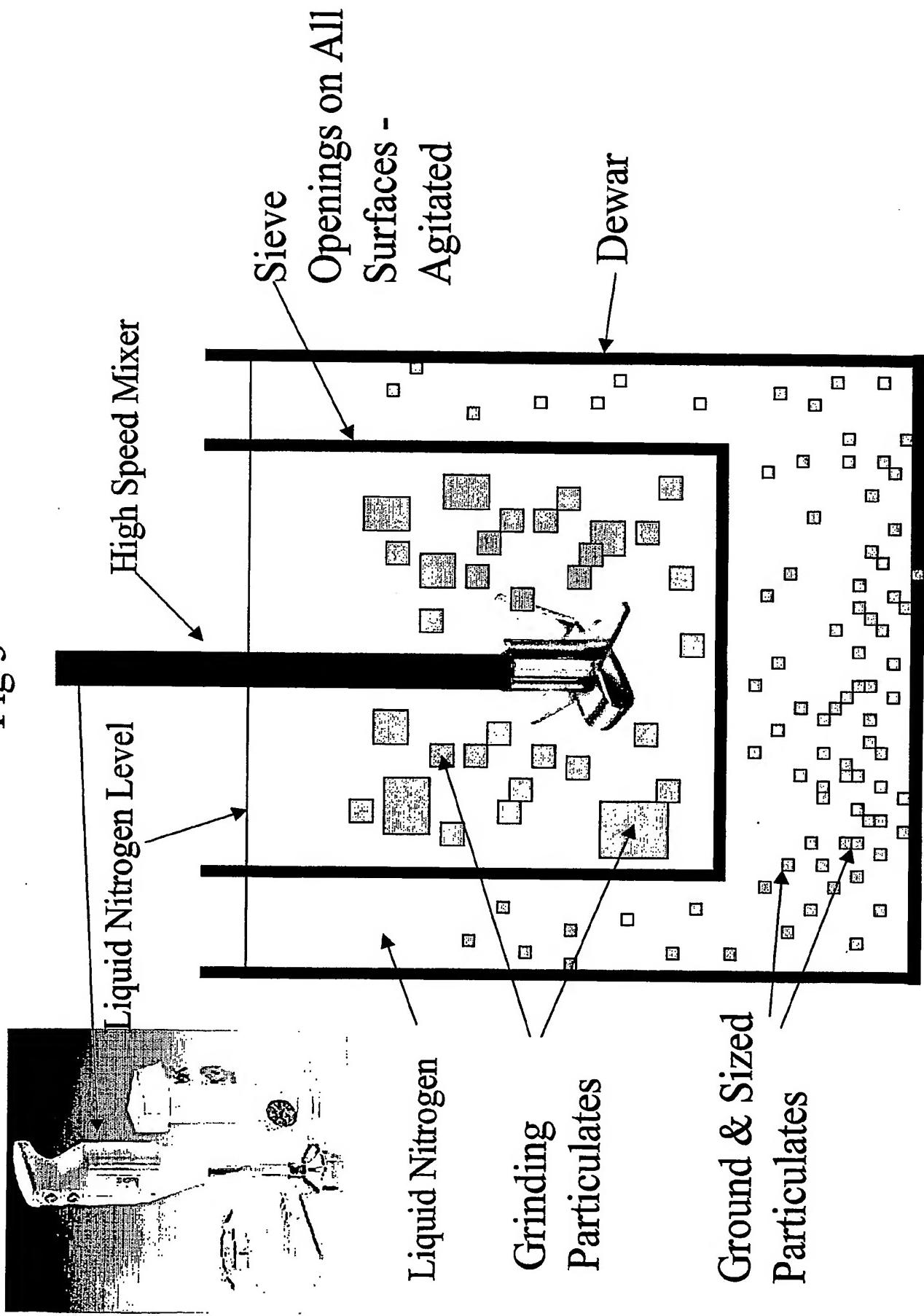


Figure 4
Effects of Wetting Procedure on Sample No. 7
2 Step Wetting Process

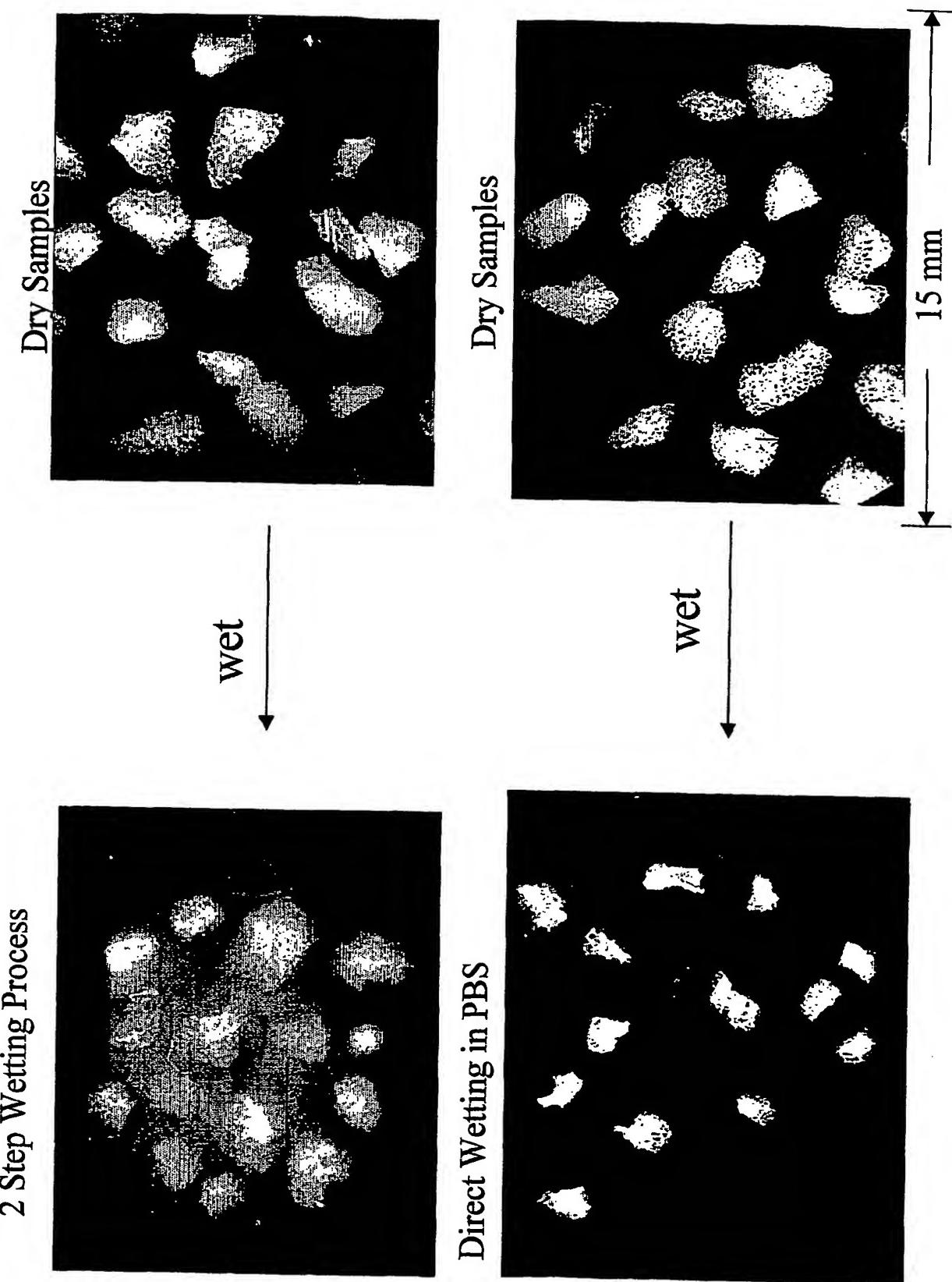
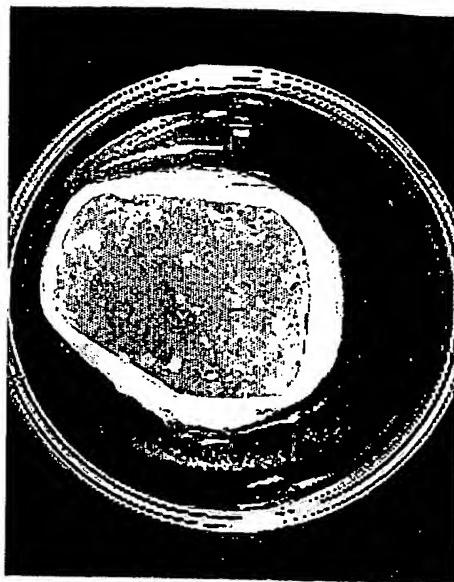
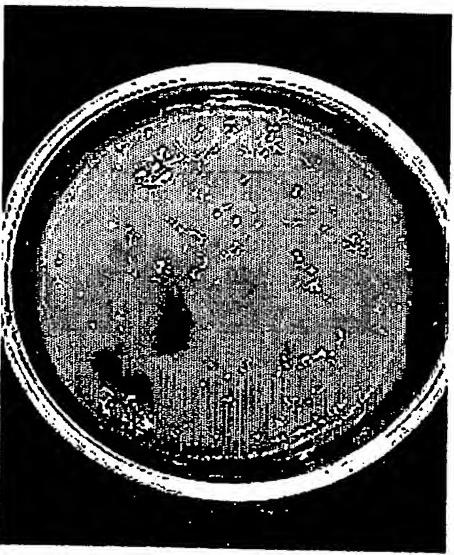


Fig. 5
Effects of Wetting Procedure on Sponge Sheets

Direct Wetting in PBS



Direct Wetting in 70% ethanol



→
2"
→

2 Step Process

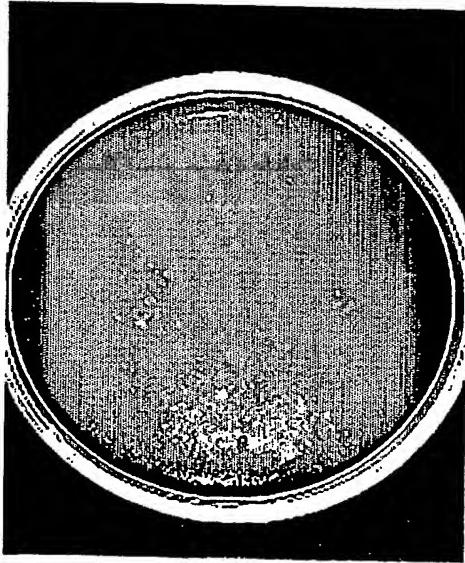


Fig 6
Proliferation of Porcine Fibroblasts on Collagen Particles

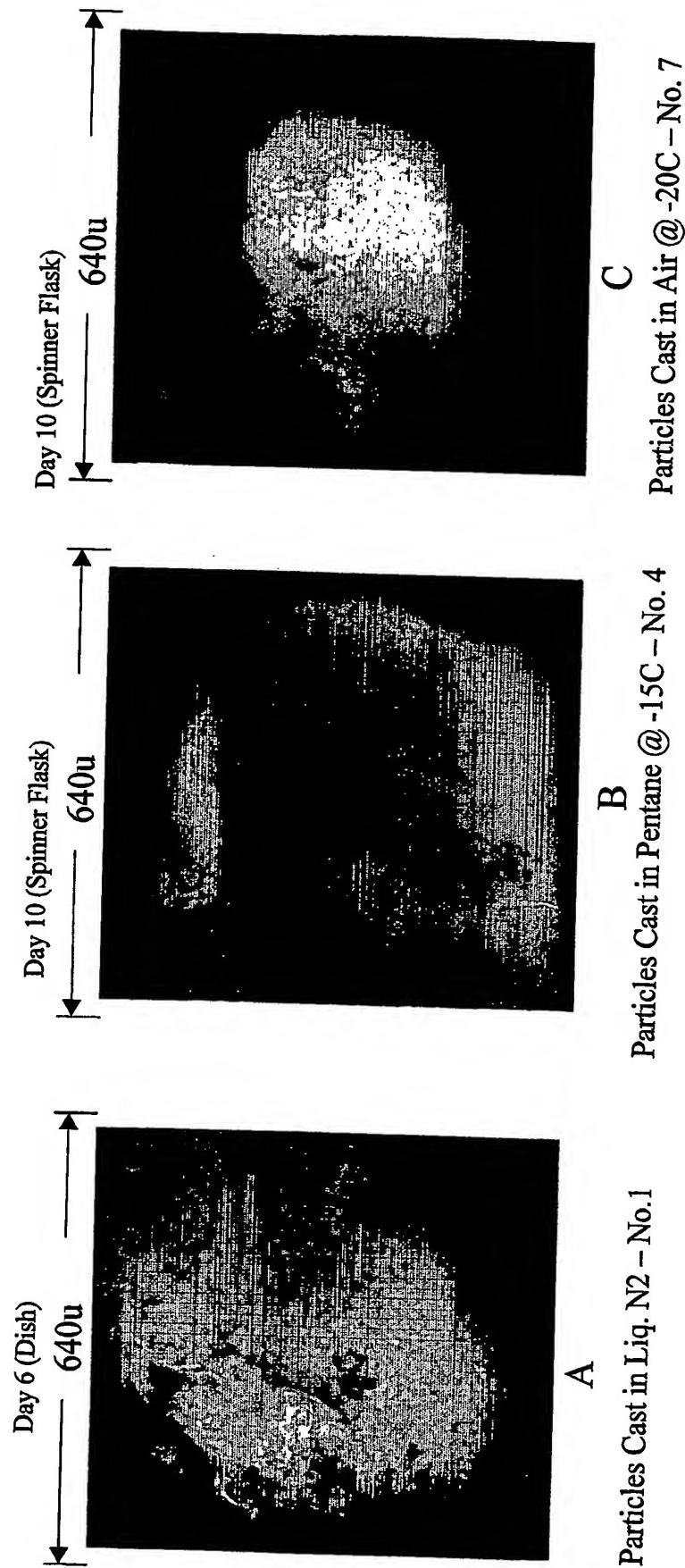


Figure 7

**Pore Size Distribution - % Area vs. Pore Diameter
Freezing in Liquid N₂**

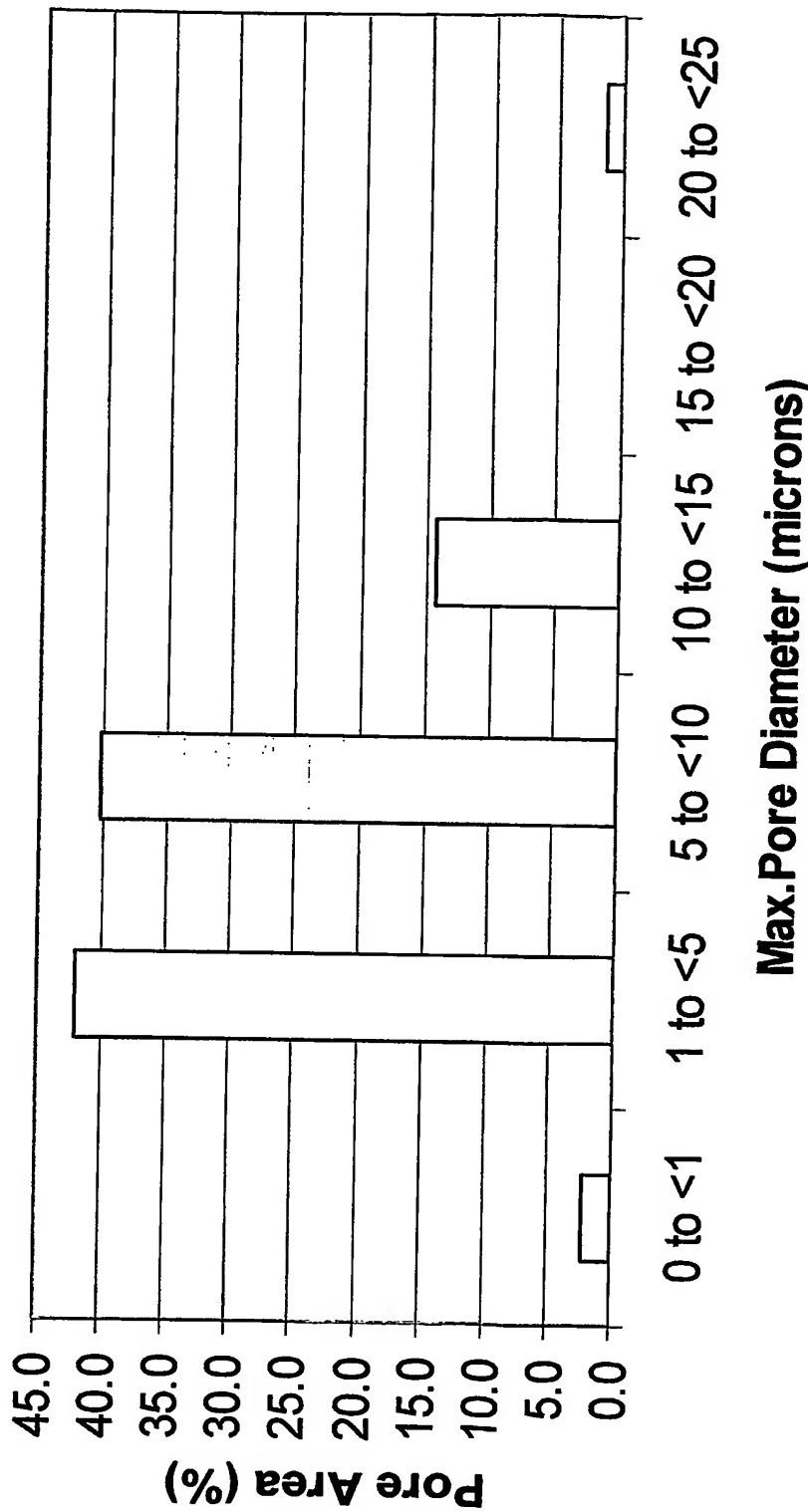


Figure 8

**Pore Size Distribution - % Area vs. Pore Size
Pentane -15C**

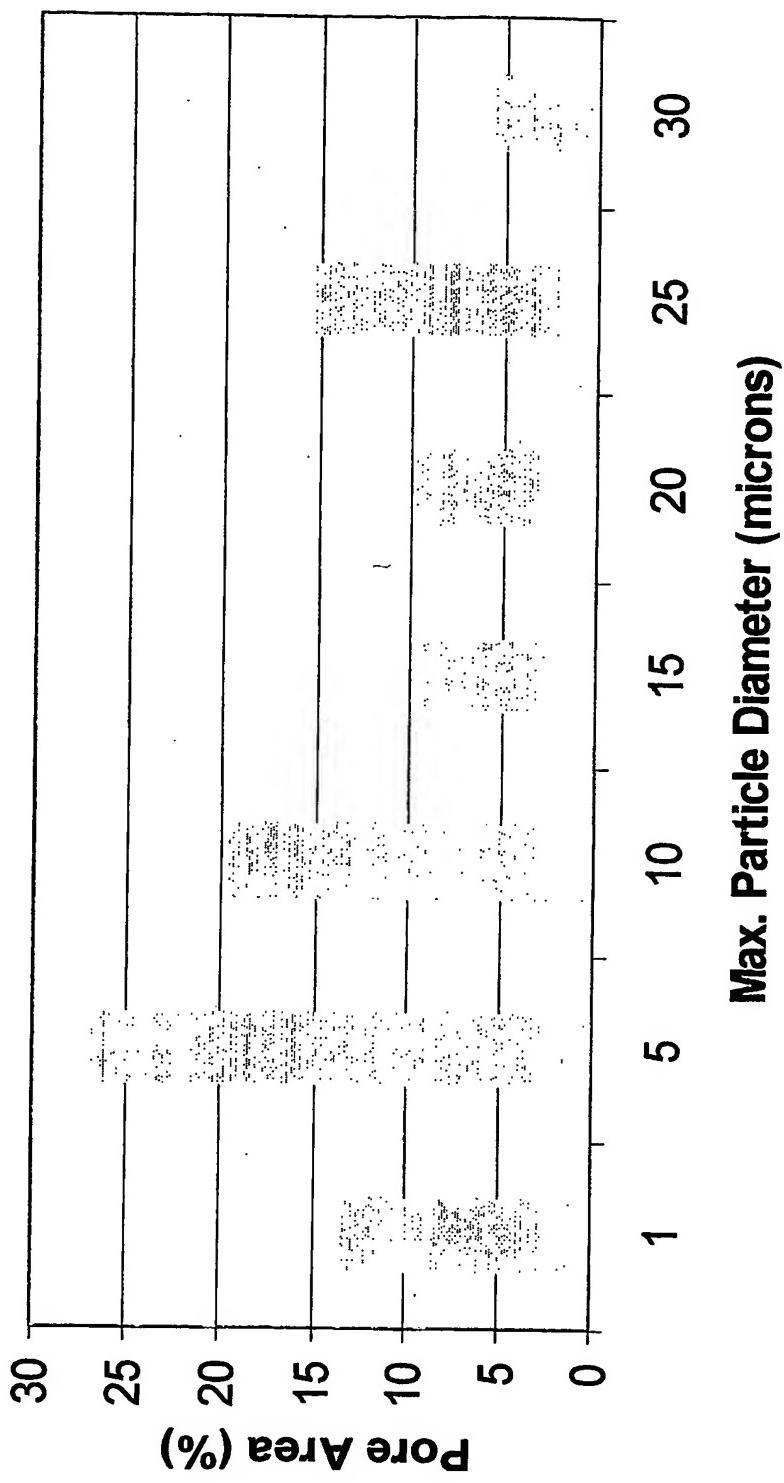


Figure 9

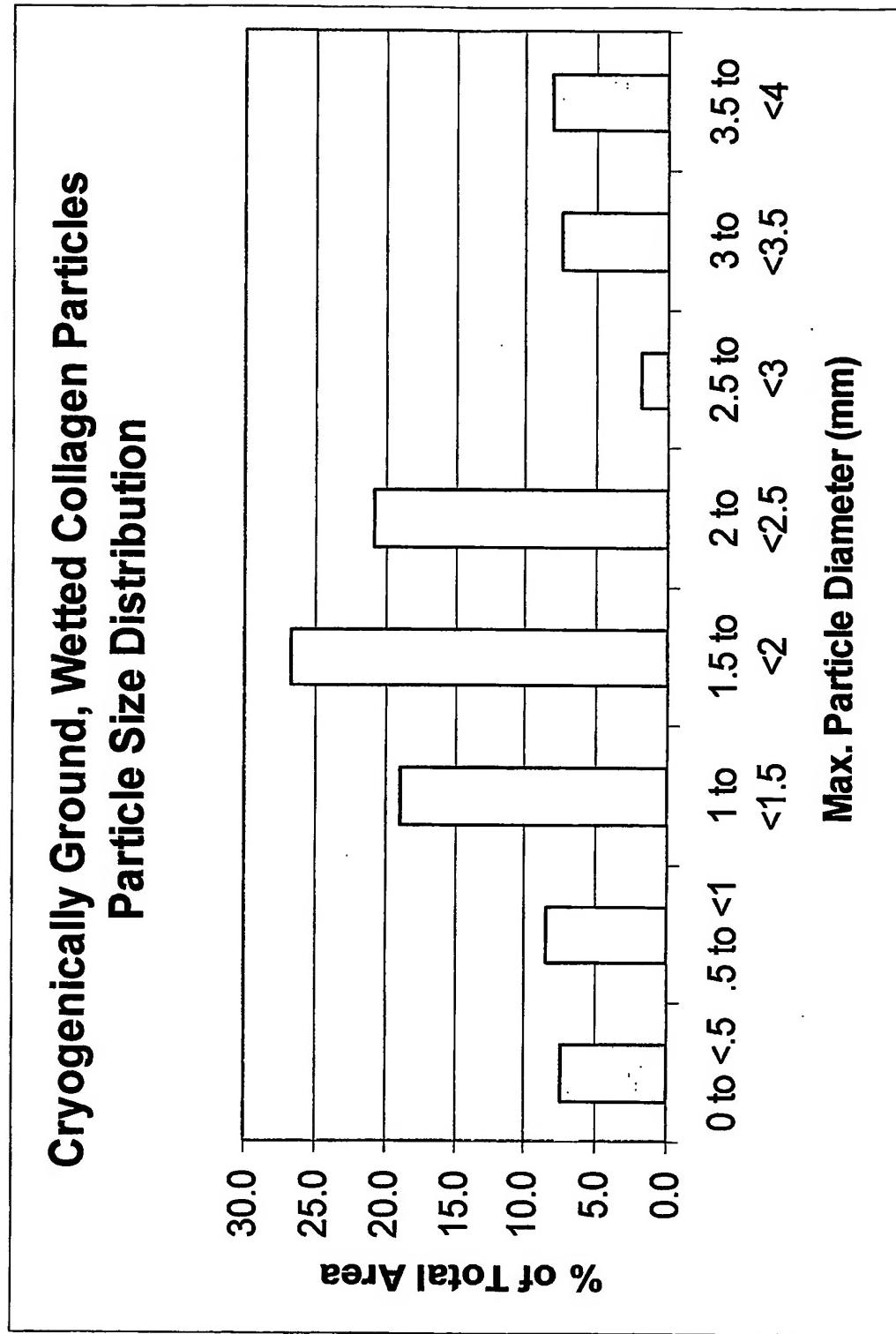
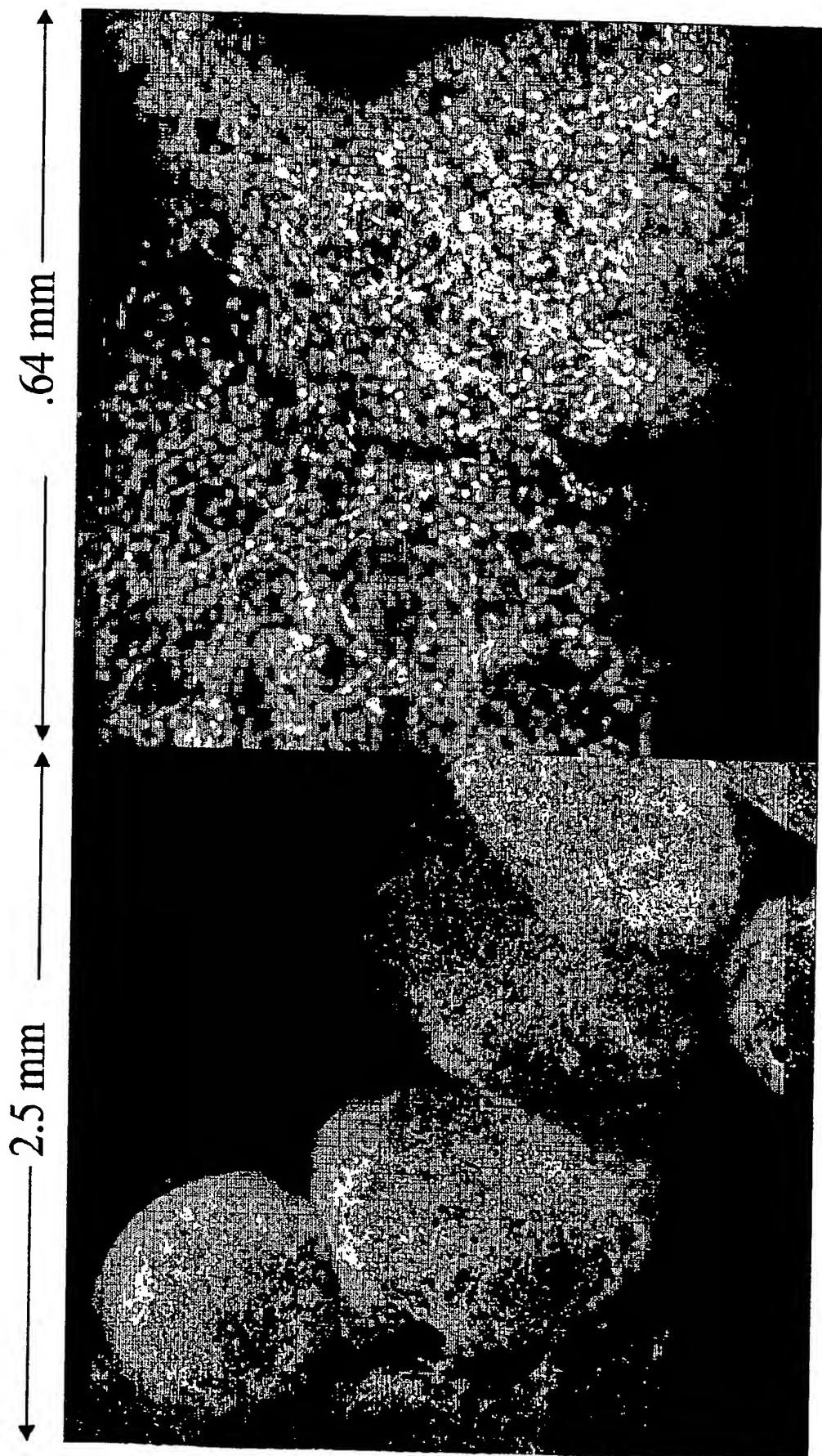


Fig. 10
Porcine Fibroblasts Cultured in vitro
On Porous Collagen Spheres
Pentane Spheres



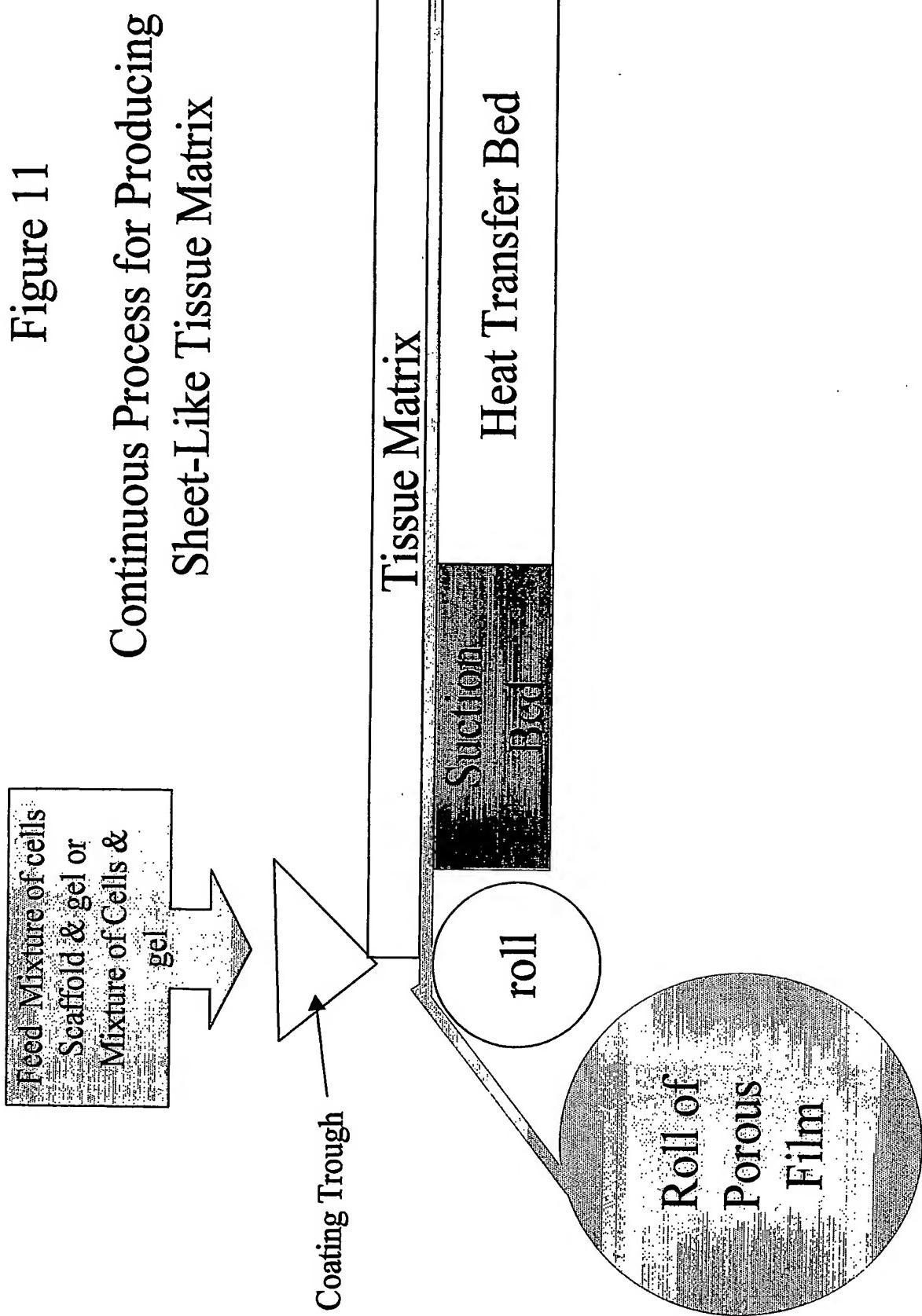


Figure 12
Particulate Biopolymer Scaffold Dispersed in a Biopolymer Gel
Seeded with Cells

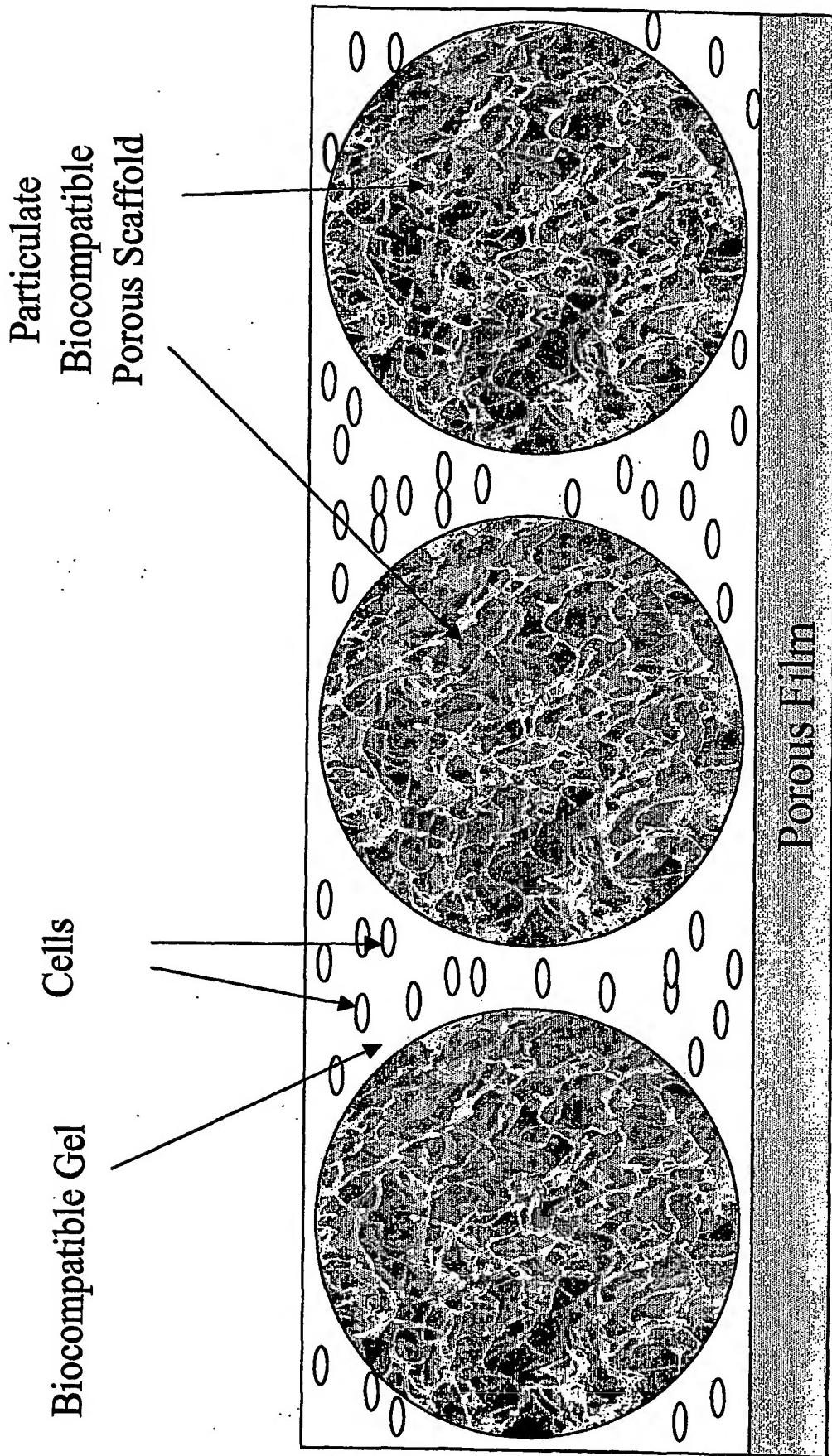
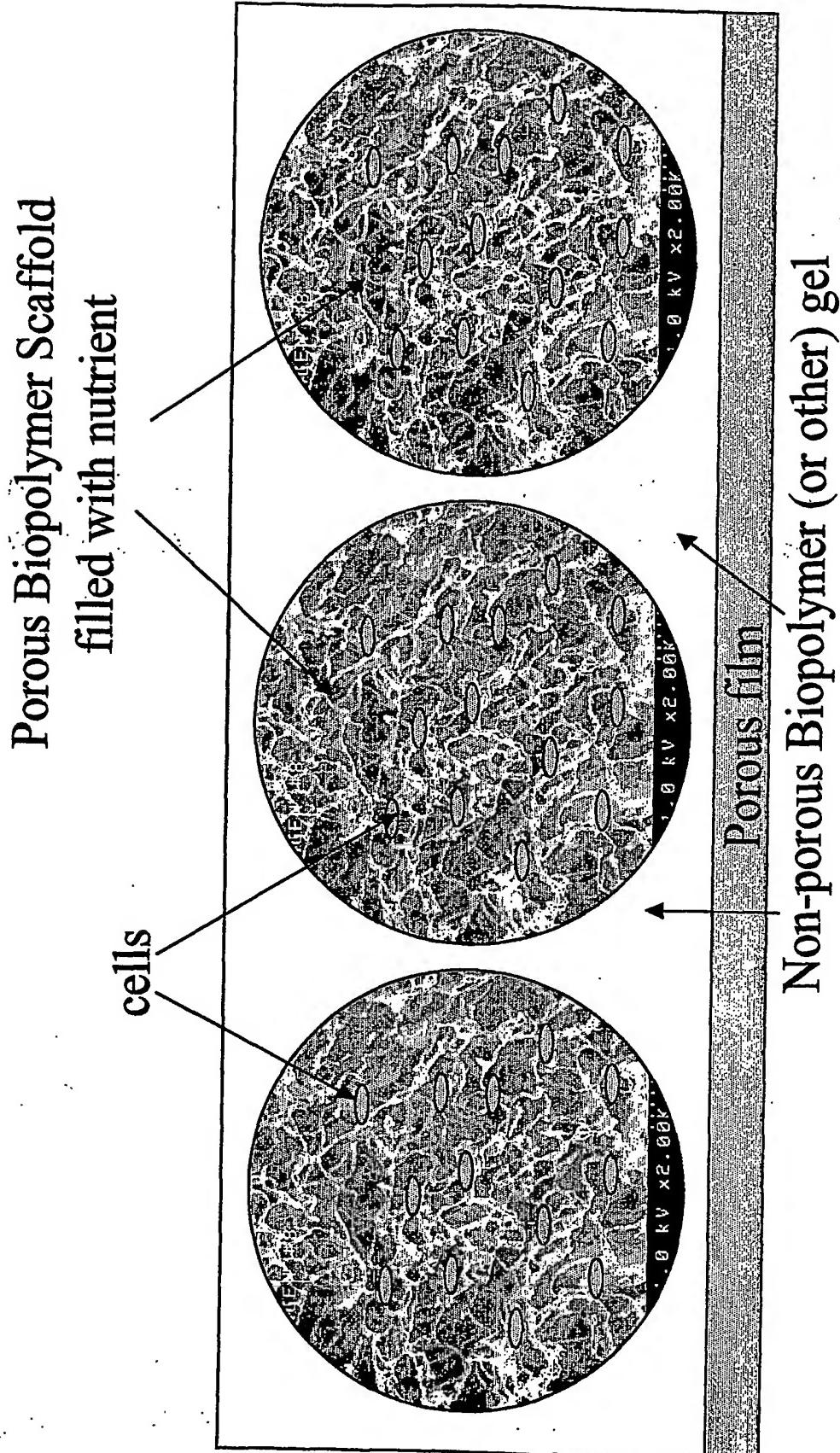
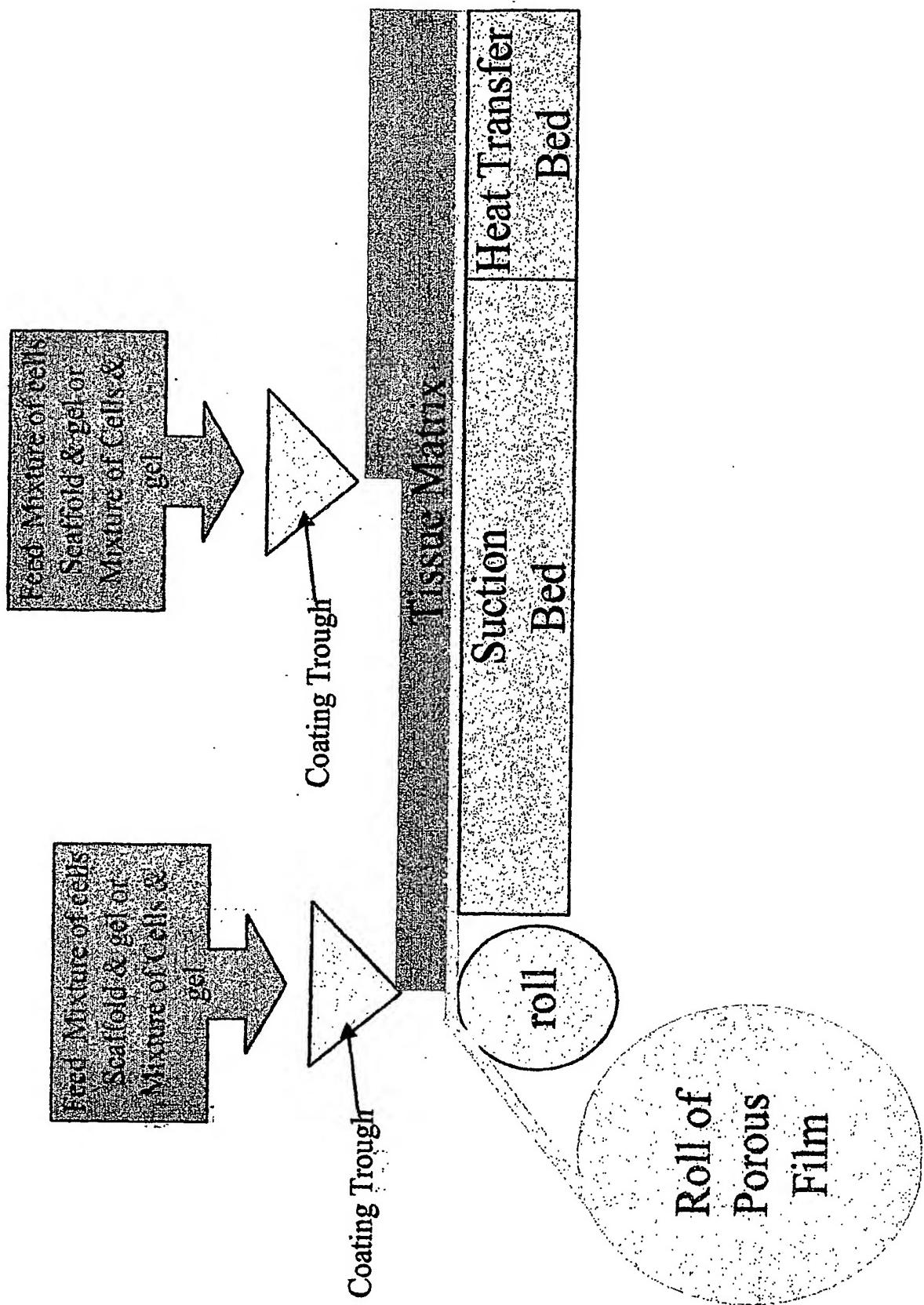


Figure 13
Dispersion of Particulate, Biopolymer Scaffold Particles,
Filled with Nutrient Solution, in a Biopolymer Gel
Cells Seeded in Scaffold



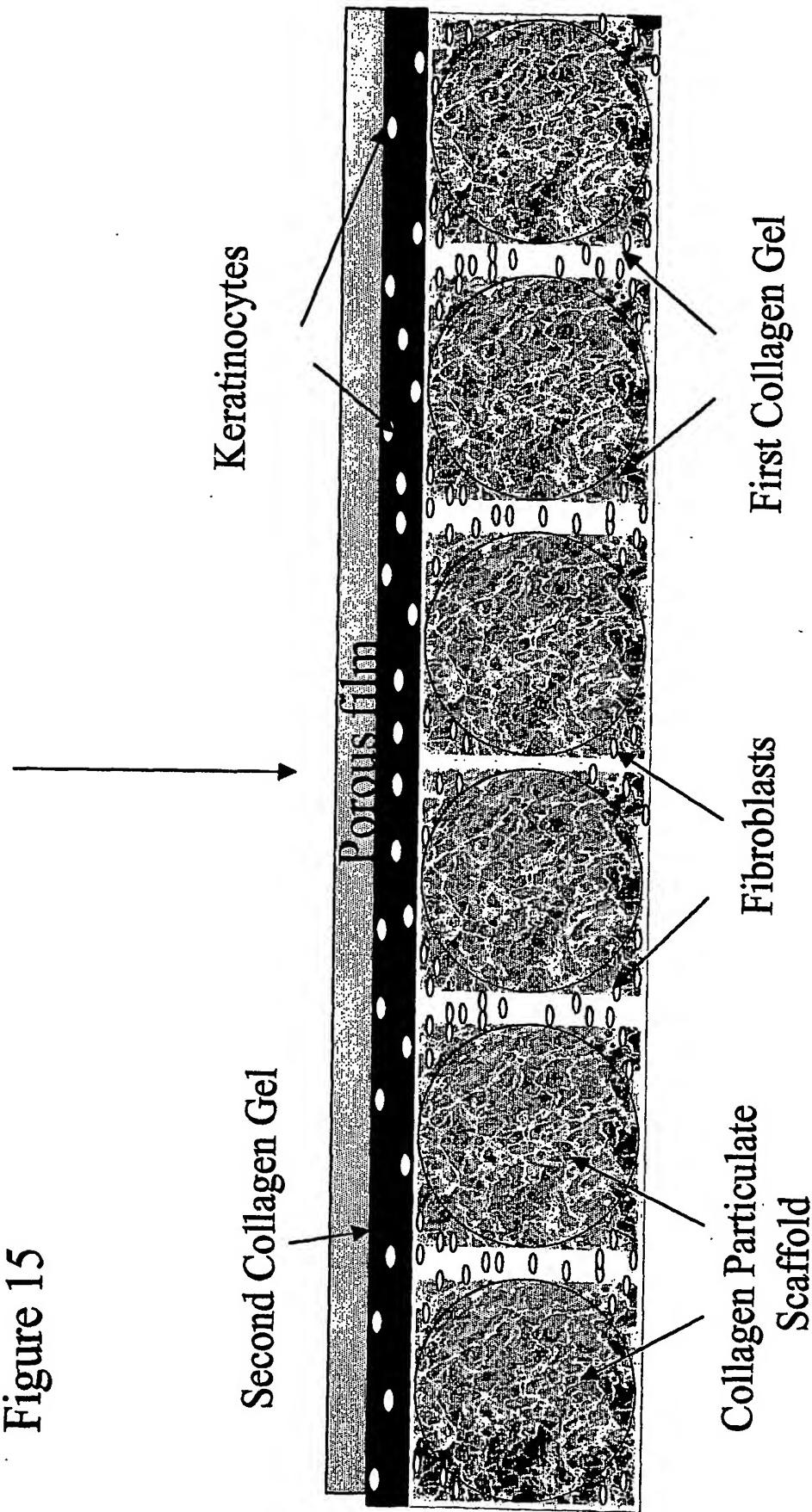
Continuous Process for Producing Sheet-Like Tissue Matrix

Figure 14



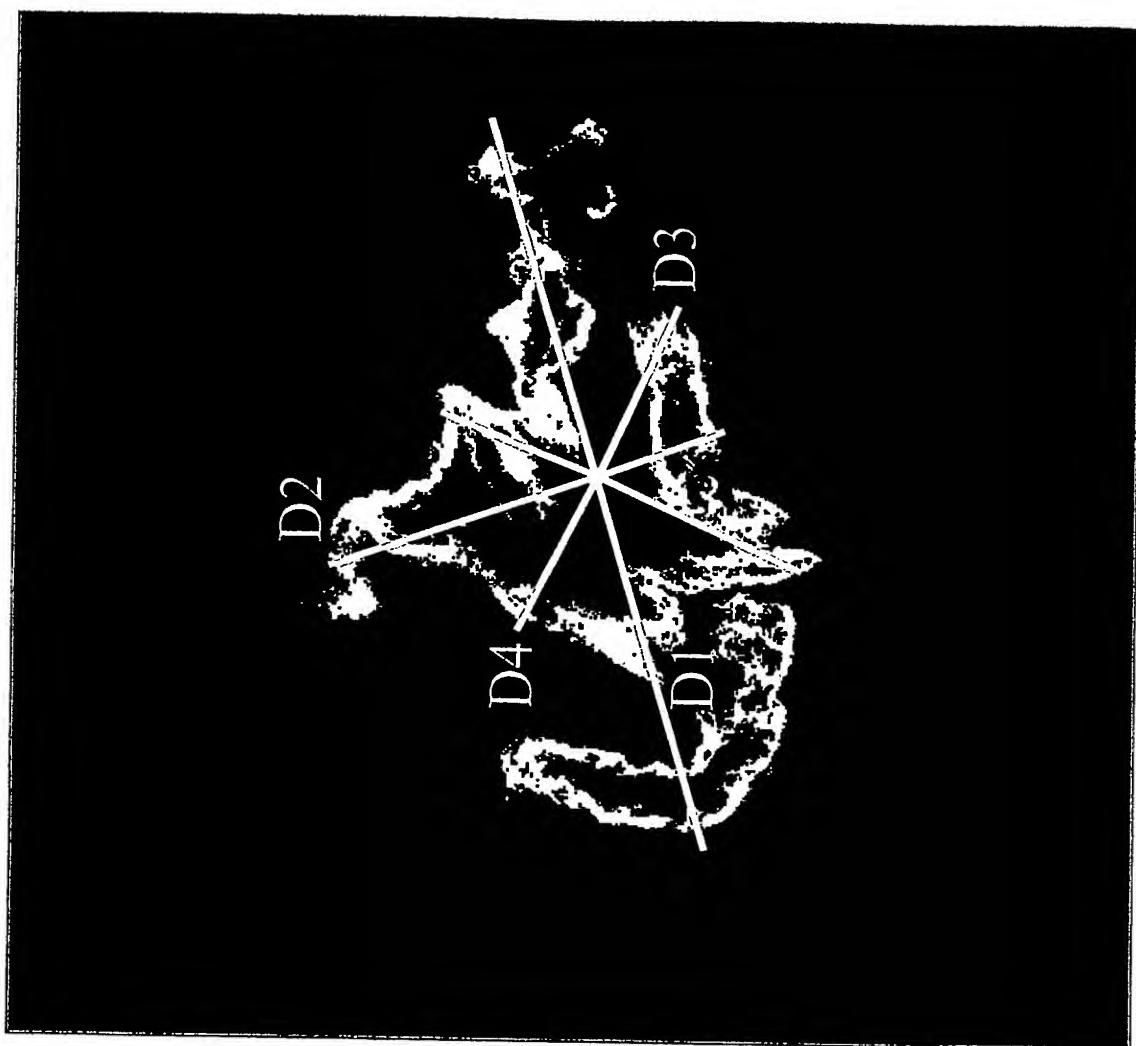
Multicellular Composite

Figure 15



D₁ = 10.5
D₂ = 5.5
D₃ = 5.3
D₄ = 5
D_{avg} = 6.6

Figure 16



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